AX-TV

User manual

HDMI Wireless video decoder

ENGLISH

INDEX

1 INSTALLATION AND SET UP 2
2 SETTINGS 3
2.1 CONFIGURATION MENU 3
3 UNIT PERFORMANCE 6
APPENDIX 1: CHANGING AXIS CAMERAS SETTINGS 7
APPENDIX 2 : TECHNICAL SPECIFICATIONS 8

1 Installation and set up

Ax-Tv is a video decoder to visualize IP Axis cameras.

With this unit you could see in your TV all the IP Axis cameras you have installed. Connect the unit to the TV trough the HDMI output and to the IP cameras by a network connection, LAN or WIFI.

For the installation of an Ax-Tv unit check the package contents and follow the steps.

Package contents

Open the packaging and check that includes the following items:

- Model applied Ax-Tv
- HDMI cable
- Network cable
- Remote control and batteries
- Power supply

Installation

For the unit installation connect the unit to the power supply, the HDMI video cable and the network cable when the camera's connection is made through a LAN.

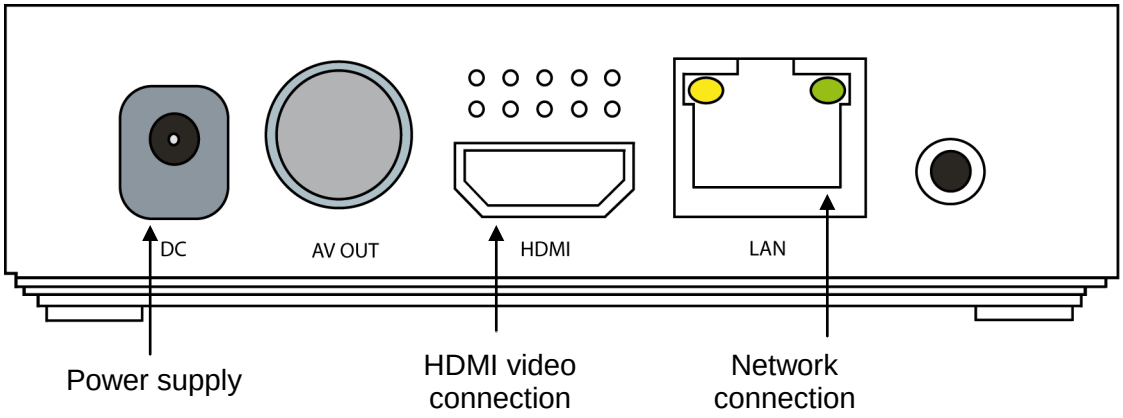


Fig. 1- Ax-Tv rear view

Start

The start-up configuration is made from the TV screen, selecting the HDMI connection corresponding to the Ax-Tv.

If you have a LAN connection and your router has DHCP the unit works automatically, without changing the configuration.

2 Settings

When the unit starts the screen shows the Visual Tools logo, press the [Menu ☰] button to show all available options.

Note: Use the arrow buttons [< ^ >] to scroll through options, the [OK] button to select an option and the [Exit ⮌] button to come back.

To show the virtual keyboards get into a text box and pres [OK]. Select the letter key with the arrow buttons and press [OK] to press it. Press [Exit ⮌] to exit the virtual keyboard.

You can use a mouse and a USB keyboard connected to the unit's front USB connectors to enter faster the configuration data. Bear in mind that the keyboard is exclusively QWERTY.

Main menu

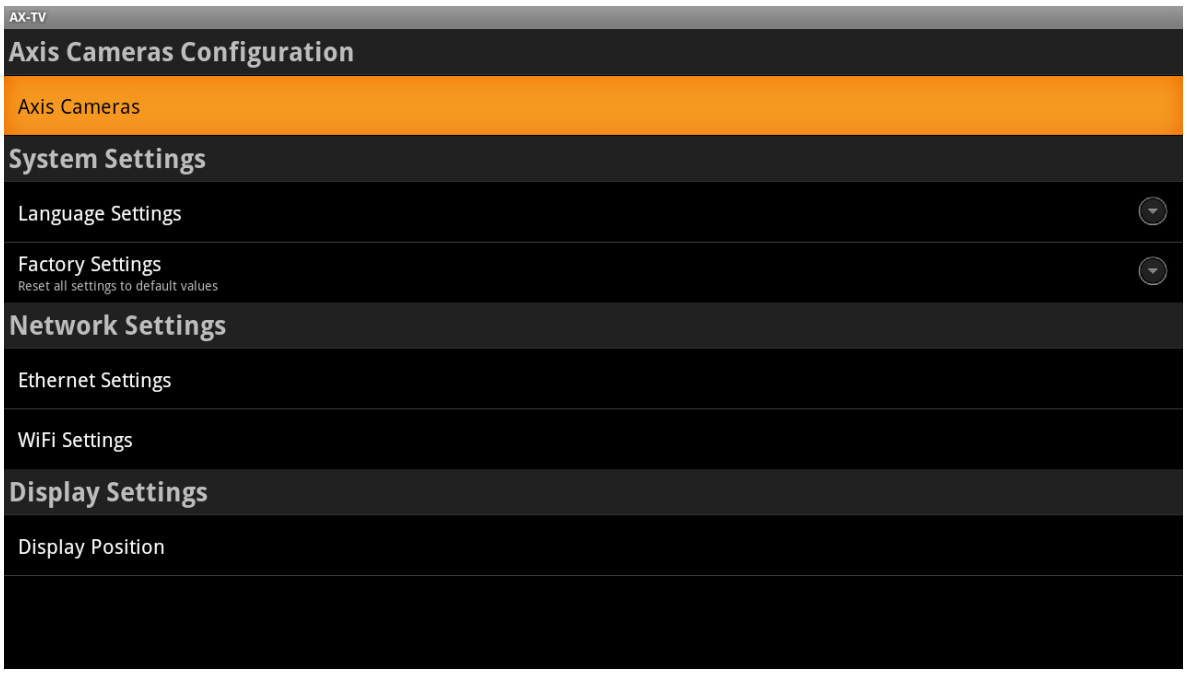
Press the [Menu ☰] button to show the menu options. The options are the following:

- Cameras: It lists the camera names and allows selecting one of them.
- Settings: It shows the settings and allows editing it.
- Round: It shows the round view. The cameras are shown one by one cyclically.
- Help: It shows a quick help guide.
- About: It shows the version and contact info.

Press [Exit ⮌] button to exit the menu.

2.1 Configuration menu

In the configuration menu you can modify the following parameters:



Network settings

You need to configure the network parameters to connect to the cameras. Choose the connection you prefer, Ethernet or WIFI, and make sure that the corresponding checkbox is selected or the communications will not be active.

- **WIFI configuration**

  Menu >> Settings >> Network settings >> WIFI settings

  Select the WIFI network and enter the corresponding password. When the connection it is correct you will see a *connected* label under the selected name's network.

- **Ethernet configuration**

  Menu >> Settings >> Network settings >> Ethernet settings

  Connect the local network cable. The DHCP protocol configures automatically the network parameters. If you want to edit the network parameters select the *Ethernet settings* option.

Camera's connection

Menu >> Settings >> Axis cameras configuration >> Axis cameras

In this screen you have to introduce the **IP/URL** cameras address you want to watch.

The unit has a sample configuration that you can change, select the **Delete All** button and press it, this option delete the entire sample IP/URL to start from an empty configuration with the default values.

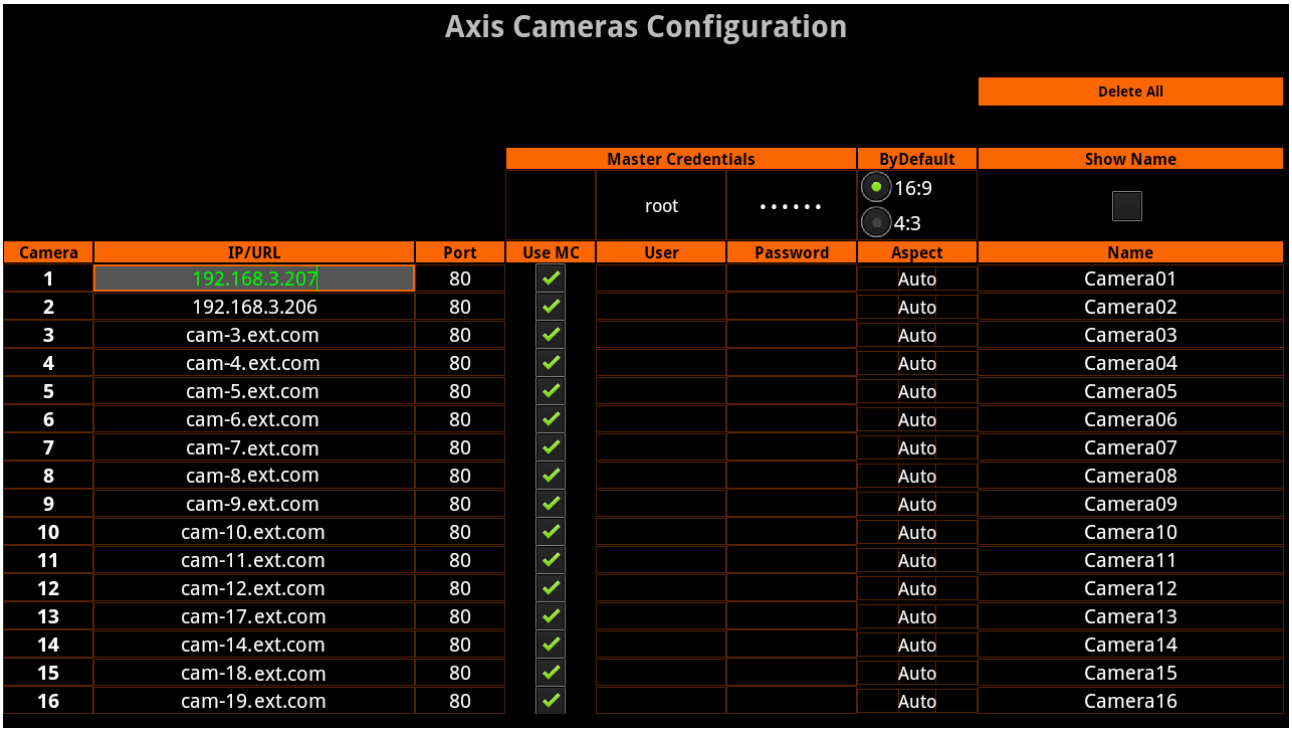
The default values includes the master credentials, all the cameras uses the user and password defined as master credentials, if a camera has a different password or user, you have to uncheck this option and enter the necessary data.

One of the default values is the connection port, by default is 80 changed it only if necessary.

The camera's appearance is adjusted automatically, the default value is fixed in auto section but you can assign to the camera a defined appearance, 16:9 or 4:3.

You can change the camera's name in the **Name** section; it can appear overlaid on the video by selecting the **Show Name** option.

Press the [Exit ⮌] button and wait until the connection to the cameras is checked, if an error occurs check the cameras configuration.



System settings

In this section you can change the language and apply the Factory settings, this option returns the Ax-Tv unit to its factory settings.

Display settings

Into the display position you can adjust on your TV screen through the arrow buttons [< ^ >] the size and the image centring. Use this option only if necessary.

3 Unit performance

Cameras

Use the numeric buttons [from 1 to 16] to select a single camera, using [Zoom-in] you could change to quad view: 1, 4, 9 and 16 depending on the Axis cameras connected.

Press [Zoom-out] to change to the previous view.

Press [Page ↑] to change to the next camera or camera's group When you are into the quad view and [Page ↓] to come back to the previous camera or camera's group.

Press the [.COM] button to show or hide the camera's name in the image.

To exit the round presses any button.

When connecting the unit remembers and display the last selected view.

Updates

The unit has a USB connection for updates, the process is as follows:

1.- The AX-TV unit need to be connected to the TV to follow the process, there is no need to be connected to the network.

2.- You need a USB memory FAT or NTFS formatted, plug it to your computer and copy the update zip file.

3.- Unzip the file on the USB memory root.

4.- Remove the AX-TV power supply and plug the USB memory.

5.- Press the button beside to the Ethernet plug and connect the power supply.

6.- During the process does not switch off the unit, nor remove the power supply. Please check on your TV that the process has ended and release the button.

For any question or concern about the process please contact the support department: support@visual-tools.com.

Appendix 1: Changing Axis cameras settings

The unit Ax-Tv request video to the camera as necessary in each case (resolution, compression, etc..) for optimum operation.

Only in case that you deemed necessary modify the cameras operation, you have the option to create profiles to adjust the cameras appearance, resolution, compression and image size.

You can create up to four profiles that correspond to the four different views that provide the Ax-Tv. The profiles name is AX-TVx where x correspond to the view type that the Ax-Tv provides (1, 2, 9 o 16 cameras).

To create these profiles you have to access the IP camera **Setup** menu, in the list on the left select **Video & Audio** and into the section, select **Stream Profiles**.

On this window are the camera list profiles, press the **Add** button to create a new profile.

1.- Into the **Image** section insert the camera name, AX-TVx and select into **Video Encoding** section the **MPEG** option.

2.- In the Image Appearance section select the resolution, being the following values the maximum that can be select for each profile.

	16:9	4:3
AX-TV1	1280 x 720	800 x 600
AX-TV4	640 x 360	480 x 360
AX-TV9	480 x 270	320 x 240
AX-TV16	320 x 180	240 x 180

Into this section you can increase the compression if it deems necessary.

3.- In the **Video Stream** section you can configure the maximum frame rate through two options, select unlimited or set a limit at the most 30 images per second.

4.- In the MJPEG tab you can specify the maximum frame size or select the size by default.

Appendix 2: Technical specifications

MODEL:	Ax-Tv Wireless video decoder
RESOLUTION:	1280 x 720
COMUNICATION:	Ethernet RJ45 10/100M adapter.Built in 802.11 b/g/n WiFi inside.
VIDEO OUTPUT:	1 HDMI 1.3 output
REMOTE CONTROL	Infrared remote control
DISPLAY:	Cameras one by one or quads 2x2, 3x3 and 4x4
PERFORMANCE	Default refresh rate 10 - 12 ips for one camera, 5 – 6 ips for four cameras, 4 – 5 ips for nine cameras and 3 - 4 ips for sixteen cameras, except by changes in the camera video profiles.
POWER:	External power supply 110-240, power consumption DC 5V 2A
PHYSICAL DATA:	Width: 120 mm x High: 30mm x Depth: 120 mm.

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